

## BLAST REPORT

BLAST REPORT # WS 13☐ Sanders Construction, Inc.☒ Western States Drilling & Blasting, Inc.DATE: AUG 2, 2010EXACT TIME OF SHOT: 8:12 PMCUSTOMER: KLBJOB NO.: WS 21005SHOT LOCATION WITH GPS COORDINATES: 1318+17.5 - 1319

TICKET NO.: \_\_\_\_\_

CHECK LIST COMPLETED: YES NO

TYPE OF ROCK: Basalt FACE HEIGHT: 24' FT. POUNDS PER DELAY: \_\_\_\_\_

TOTAL HOLES: 34

NUMBER OF HOLES: 34 HOLE DIA: 3 3/4" B x S \_\_\_\_\_ x \_\_\_\_\_ STEMMING: 5' DEPTH: 27'

NUMBER OF HOLES: 10 HOLE DIA: 3" B x S 4 x 4 STEMMING: 4' DEPTH: 6

POWDER FACTOR: PRESPLIT LBS. OF EXPLOSIVES: 279# YARDS OF ROCK: NA

WEATHER: CLEAR MILD WIND: W 3-4 MPH

EXACT MONITOR LOCATION(GPS): LW1320 DIRECTION OF BLAST: NW MONITOR TYPE: EX AD-8

MONITOR: L/R \_\_\_\_\_ T \_\_\_\_\_ V 1.07 PVS 1.21 Db 137 MONITOR SERIAL NO.: 829

DISTANCE TO BLAST: 100' AVERAGE POUNDS PER HOLE: 6.3 OPERATOR: VIC BRONSON

EXACT MONITOR LOCATION(GPS): \_\_\_\_\_ DIRECTION OF BLAST: \_\_\_\_\_ MONITOR TYPE: \_\_\_\_\_

MONITOR: L/R \_\_\_\_\_ T \_\_\_\_\_ V \_\_\_\_\_ PVS \_\_\_\_\_ Db \_\_\_\_\_ MONITOR SERIAL NO.: \_\_\_\_\_

DISTANCE TO BLAST: \_\_\_\_\_ AVERAGE POUNDS PER HOLE: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

## EXPLOSIVES

| DESCRIPTION               | QUANTITY USED        | DATE CODE       | MAGAZINE | REMOVED | RETURNED |
|---------------------------|----------------------|-----------------|----------|---------|----------|
| LOCATION:                 |                      |                 |          |         |          |
| BULK A/N                  | Lbs                  |                 |          |         |          |
| BAG ANFO                  | Bags                 |                 |          |         |          |
| POWDER <u>7/8" SENECA</u> | <u>50s + 11s</u> ea. | <u>091119</u>   |          |         |          |
| POWDER                    | ea.                  |                 |          |         |          |
| lb. BOOSTER               | ea.                  |                 |          |         |          |
| lb. BOOSTER               | ea.                  |                 |          |         |          |
| <u>12</u> ft. <u>TD9</u>  | <u>7</u> ea.         | <u>050609B4</u> |          |         |          |
| <u>16</u> ft. <u>MS42</u> | <u>10</u> ea.        | <u>14JA10B4</u> |          |         |          |
| ft.                       | ea.                  |                 |          |         |          |
| ft.                       | ea.                  |                 |          |         |          |
| ft.                       | ea.                  |                 |          |         |          |
| ft.                       | ea.                  |                 |          |         |          |
| ft.                       | ea.                  |                 |          |         |          |
| ft. ms                    | ea.                  |                 |          |         |          |
|                           | ft.                  |                 |          |         |          |
| <u>25</u> GRAIN CORD      | <u>100</u> ft.       | <u>09NO09T4</u> |          |         |          |
| <u>50</u> GRAIN CORD      | <u>238</u> ft.       | <u>29OC7T4</u>  |          |         |          |
| MISCELLANEOUS             |                      |                 |          |         |          |
| <u>LIL</u>                | <u>600'</u>          | <u>05AP10B4</u> |          |         |          |

COMMENTS:

BLASTER'S SIGNATURE: CharlieLICENSE NO.: UP21262

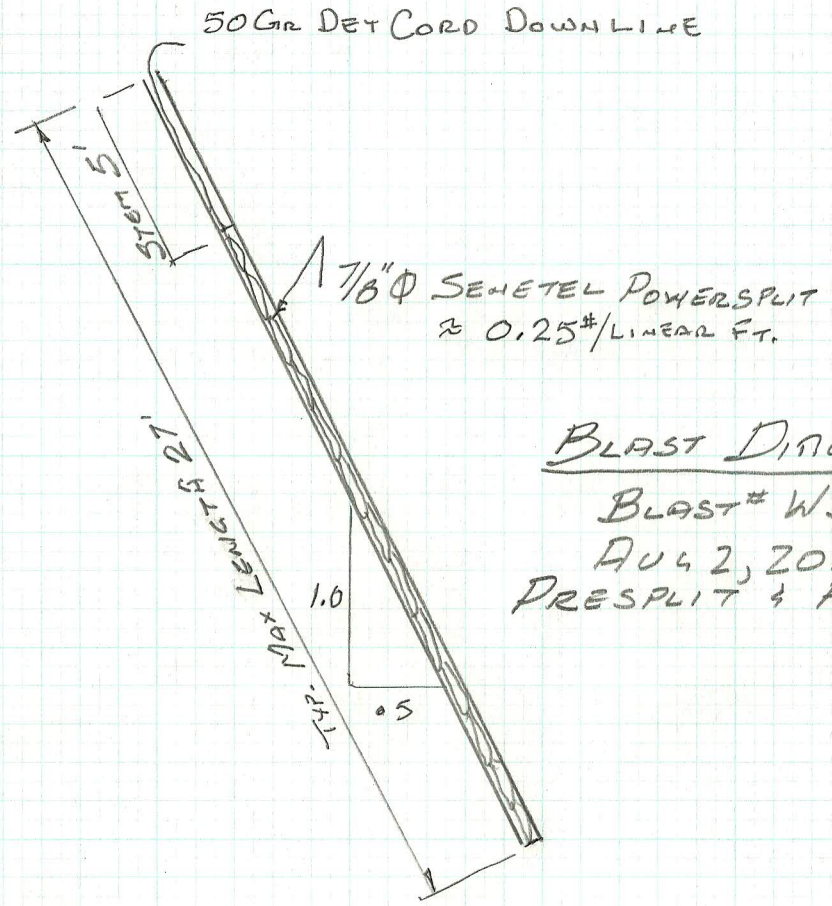
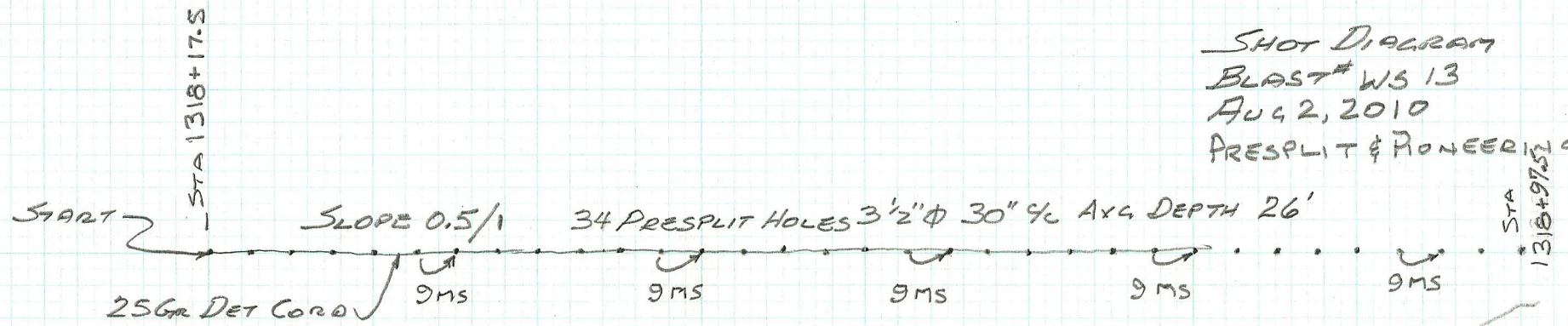
Revised 03/04

ATTACH SKETCH OF SHOT

THIS FORM MUST BE FILLED OUT COMPLETELY

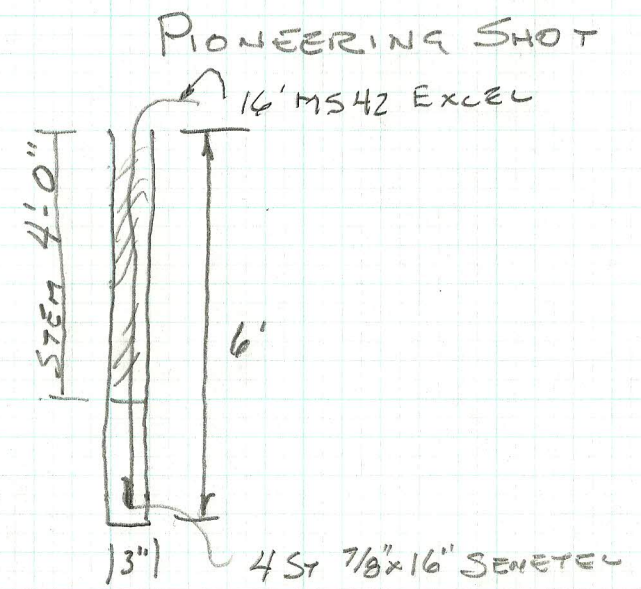
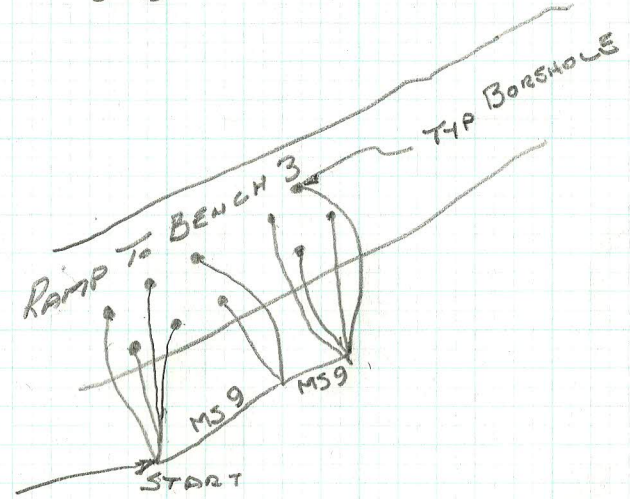


SHOT DIAGRAM  
 BLAST# WS 13  
 AUG 2, 2010  
 PRESPLIT & PIONEERING



BLAST DIAGRAM  
 BLAST# WS 13  
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TYPICAL PRESPLIT HOLE



TYP. PIONEERING SHOT HOLE

# Check List

Date Aug 2, 2010

Job Number WS21005

Shot Number WS 13

## 1. BEFORE BLASTING

### NOTIFICATION

- ☒ Fire Department
- ☒ Utilities
- ☒ Businesses & Home Owners
- ☒ Seismograph Tech
- ☐ Other (List)

### MATERIAL & EQUIPMENT

- ☒ Adequate Stemming Material
- ☒ Warning Signs
- ☒ Warning Signals
- ☒ Safe Amount of Lead Line
- ☒ Seismograph Paper, Pens, etc.
- ☒ Fire Extinguishers (charged)
- ☒ Adequate Blasting Shelter
- ☒ Mats (If Applicable)

### SHOT DESIGN

- ☒ Pattern OK for Area
- ☒ Sufficient Burden to Face
- ☒ Reviewed drill logs
- ☒ Measured Depth, Burden & Spacing
- ☒ Shot Area Posted & Secure
- ☒ Shot Diagramed on Back

## 2. DURING LOADING

### CONSTANT CHECKS

- ☒ Explosives
- ☒ Running Inventory
- ☒ Access Row Empty
- ☒ Drills & Traffic 50' Away
- ☒ Shot can be fired in case of emergency

All Holes to be checked & approved

- ☒ Blaster initial
- ☒ Supt initial

## 3. DETONATION

### HOOK - UP

- ☒ All Unnecessary Crew Cleared
- ☒ All Holes Loaded & Stemmed
- ☒ Hand Check tubing Before Each Connection
- ☒ Visually Insured That Each Connection is Snapped

### SECURE AREA

- ☒ Set up Seismograph
- ☒ Est. Checkpoints at Each Access
- ☒ Radio Communication with Checkpoints.
- ☒ Cleared People, Vehicles & Equipment
- ☒ Visual Coverage of Entire Site
- ☒ Five Minute Warning
- ☒ One Minute Warning

## 4. AFTER DETONATION

### POST BLAST CHECK

- ☒ Waited for Dust & Fumes to Dissipate
- ☒ Walked Entire Area of Shot
- ☒ Insured that tail Surface Delays Fired at the End of Each Row
- ☒ Sounded All Clear Signal

### LEGAL DOCUMENTATION

- ☒ Completed Shot Report
- ☒ Diagramed Shot w/ Seismograph Location (Direction & Distance)
- ☒ Recorded Seismic Results on Blast Report
- ☒ Final Inventory of Explosives Recorded
- ☒ Ticket Number Assigned By Job Supervisor
- ☒ Signed Blast Report w/ License No.

*Supt has checked and verified that all has been completed and shot area is ready for loading*

*Can*

Supt initial